

Overview

Useful For

Identification of dendritic cells and classification of histiocytic disorders

Reflex Tests

Test ID	Reporting Name	Available Separately	Always Performed
IHTOA	IHC Additional, Tech Only	No	No
IHTOI	IHC Initial, Tech Only	No	No

Method Name

Immunohistochemistry

NY State Available

Yes

Specimen

Specimen Type

TECHONLY

Advisory Information

[This test includes only technical performance of the stain \(no pathologist interpretation is performed\). If diagnostic consultation by a pathologist is required order PATHC / Pathology Consultation.](#)

Shipping Instructions

Attach the green pathology address label and the pink Immunostain Technical Only label included in the kit to the outside of the transport container.

Specimen Required

Supplies: Immunostain Technical Only Envelope (T693)

Specimen Type: Tissue

Container/Tube: Immunostain Technical Only Envelope

Preferred: 2 unstained positively charged glass slide (25- x 75- x 1-mm) per test ordered; sections 4-microns thick.

Acceptable: Formalin-fixed, paraffin-embedded (FFPE) tissue block

Digital Image Access

1. Information on accessing digital images of IHC stains and the manual requisition form can be accessed through this website: www.mayocliniclabs.com/test-info/ihc/index.html

2. Clients ordering stains using a manual requisition form will not have access to digital images.

3. Clients wishing to access digital images must place the order for IHC stains electronically. Information regarding digital imaging can be accessed through this website: www.mayocliniclabs.com/test-info/ihc/faq.html

Forms

If not ordering electronically, complete, print, and send an [Immunohistochemical \(IHC\)/In Situ Hybridization \(ISH\) Stains Request](#) (T763) with the specimen.

Reject Due To

Hemolysis	NA
Lipemia	NA
Icterus	NA
Other	Cytology smears Nonformalin fixed tissue Nonparaffin embedded tissue Noncharged slides ProbeOn slides Wet/frozen tissue

Specimen Stability Information

Specimen Type	Temperature	Time
TECHONLY	Ambient (preferred)	
	Refrigerated	

Clinical and Interpretive

Clinical Information

Zinc finger and BTB domain-containing protein 46 (ZBTB46) is a transcription factor expressed by classical dendritic cells and committed dendritic cell precursors. Expression of ZBTB46 differentiates histiocytic disorders such as Langerhans cell histiocytosis, histiocytic sarcoma, and indeterminate cell histiocytosis from Rosai-Dorfman and Erdheim-Chester disease.

Interpretation

This test includes only technical performance of the stain (no pathologist interpretation is performed). If diagnostic consultation by a pathologist is required order PATHC / Pathology Consultation.

The positive and negative controls are verified as showing appropriate immunoreactivity. If a control tissue is not included on the slide, a scanned image of the relevant quality control tissue is available upon request. Contact 855-516-8404.

Interpretation of this test should be performed in the context of the patient's clinical history and other diagnostic tests by a qualified pathologist.

Cautions

[No significant cautionary statements](#)

Clinical Reference

1. Reizis B: Classical dendritic cells as a unique immune cell lineage. J Exp Med 2012 209(6):1053-1056
2. Satpathy AT, Wumesh KC, Albring JC, et al: Zbtb46 expression distinguishes classical dendritic cells and their committed progenitors from other immune lineages. J Exp Med 2012 209(6):1135-1152
3. Meredith MM, Liu K, Darrasse-Jeze G, et al: Expression of the zinc finger transcription factor zDC (Zbtb46, Btbd4) defines the classical dendritic cell lineage. J Exp Med 2012 209(6):1156-1165
4. Satpathy AT, Brown RA, Gomulia E, et al: Expression of the transcription factor ZBTB46 distinguishes human histiocytic disorders of classical dendritic cell origin. Mod Pathol 2018 31:1479-1486

Performance**Method Description**

Immunohistochemistry on sections of paraffin-embedded tissue.(Unpublished Mayo method)

PDF Report

No

Day(s) and Time(s) Test Performed

Monday through Friday

Analytic Time

1 day

Maximum Laboratory Time

3 days

Specimen Retention Time

Until staining is complete

Performing Laboratory Location

Rochester

Fees and Codes**Fees**

- Authorized users can sign in to [Test Prices](#) for detailed fee information.
- Clients without access to Test Prices can contact [Customer Service](#) 24 hours a day, seven days a week.
- Prospective clients should contact their Regional Manager. For assistance, contact [Customer Service](#).

Test Classification

This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with

CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

CPT Code Information

88342-TC, primary

88341-TC, if additional IHC

LOINC® Information

Test ID	Test Order Name	Order LOINC Value
BTB46	ZBTB46 IHC, Tech Only	Order only;no result

Result ID	Test Result Name	Result LOINC Value
605255	ZBTB46 IHC, Tech Only	Bill only; no result